

Industrial Laminates/Norplex MC603 Paper Base Laminate (discontinued **)

Category : Polymer , Thermoset , Phenolic

Material Notes:

Description: MC603 is constructed from electrical grade of kraft paper and a specially modified phenolic resin system, and is designed to be used in tap changers, coil support plates and terminal panels for transformers and their accessories. Thickness Tested: 0.250" and 0.500"

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industrial-LaminatesNorplex-MC603-Paper-Base-Laminate-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	
Moisture Absorption at Equilibrium	0.94 % @Thickness 6.35 mm	0.94 % @Thickness 0.250 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90 - 110	90 - 110	
Tensile Strength, Yield	172 MPa @Thickness 6.35 mm	25000 psi @Thickness 0.250 in	LW
Flexural Strength	138 MPa @Thickness 6.35 mm	20000 psi @Thickness 0.250 in	CW
	172 MPa @Thickness 6.35 mm	25000 psi @Thickness 0.250 in	LW
Compressive Strength	241 MPa @Thickness 6.35 mm	35000 psi @Thickness 0.250 in	Flatwise
Izod Impact, Unnotched	0.454 J/cm @Thickness 6.35 mm	0.850 ft-lb/in @Thickness 0.250 in	CW, E-48/50
	1.87 J/cm @Thickness 6.35 mm	3.50 ft-lb/in @Thickness 0.250 in	LW, E-48/50

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	140 °C	284 °F	
UL RTI, Mechanical without Impact	130 °C	266 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	5.91 kV/mm	150 kV/in	Condition - A Step/Step
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dielectric Breakdown	6000 V	6000 V	D-48/50
	@Thickness 6.35 mm	@Thickness 0.250 in	
	>= 70000 V	>= 70000 V	Condition A
	@Thickness 6.35 mm	@Thickness 0.250 in	

Descriptive Properties	Value	Comments
Bond Strength	850 lb	0.5"
Power Factor	0.03	ASTM D150
Thermal Index	130/140°C	

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